

Title (en)

Motor vehicle hinge with brake and hold function

Title (de)

Kraftwagentürscharnier mit Brems- und Haltefunktion

Title (fr)

Charnière pour porte de véhicule avec fonction de retenue et de freinage

Publication

EP 0777025 B1 20020828 (DE)

Application

EP 96115704 A 19961001

Priority

- DE 19543345 A 19951121
- DE 19600063 A 19960103

Abstract (en)

[origin: EP0777025A1] This new vehicle door hinge has braking and holding functions. It comprises a pair of hinge leaves (1, 2), with one or more bores (50, 60) in each, to take the hinge pin (3), and attaches to the door or door bar and framing section. The hinge pin is solid and is secured against rotation in one of the hinge bores, passing through the other with bearing clearance. In the novel design, the pin and bore, seen in cross section, have a curved departure from circularity, with free bearing clearance over a range of opening, and braking effect beyond. Preferably, the non-circular bearing section of the hinge pin is wear-protected by hard layers of e.g. a carbide, nitride, carbo-nitride, boride, hard chrome, ceramic, graded and ion implanted layers, or combinations of these. Alternatively, wear-protective solid lubricants are used, based on e.g. molybdenum disulphide, PTFE, graphite, lead or cadmium.

IPC 1-7

E05D 11/08; **E05D 5/12**

IPC 8 full level

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CPC (source: EP KR US)

E05D 5/121 (2013.01 - EP US); **E05D 7/00** (2013.01 - KR); **E05D 11/084** (2013.01 - EP); **E05D 3/02** (2013.01 - EP); **E05D 5/127** (2013.01 - EP); **E05D 7/1005** (2013.01 - EP); **E05D 7/1044** (2013.01 - EP); **E05D 2005/124** (2013.01 - EP); **E05Y 2900/20** (2013.01 - EP); **E05Y 2900/531** (2013.01 - EP)

Cited by

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DOCDB simple family (publication)

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